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PATENT
Attorney Docket No.: 15270J-004765US
Client Reference No.: 209-US-CIP8BC5

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By: _____



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DALE B. SCHENK et al.

Application No.: 09/724,288

Filed: November 28, 2000

For: PREVENTION AND TREATMENT
OF AMYLOIDOGENIC DISEASE

Examiner: Sharon L. Turner

Art Unit: 1647

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

09/12/2003 KBTEHA1 00000012 201430 09724288
01 FC:1806 180.00 DA

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/580,018, filed May 26, 2000 (Attorney Docket No. 15270J-004760US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

"Grant Application; Raso, Immunology of Alzheimer's Disease', 1/1998," cited by the Examiner in Application No. 09/579,690, is submitted herewith as cite no. 304. Application No. 09/579,690 is a commonly owned copending application directed to subject

matter related to the instant application. Applicant believes "1/1998" is not the publication date as alleged by the Examiner, but refers to the grant funding cycle. Applicants' further believe the date of public accessibility, if any, is unknown. Applicant wishes to bring to the Examiner's attention that a copy of a grant application believed to have been submitted by Victor Raso for NIH Grant 1 R43 AGI 5746-01 on August 29, 1997 was previously submitted in the initial IDS submitted September 10, 2001 as cite no. 144. Cite no. 144 is a redacted version of cite no. 304. Applicant obtained cite no. 144 under the Freedom of Information Act (FOIA). It is believed that the grant proposal would not have been accessible under FOIA before April 2, 1998, but the exact date of public accessibility, if any, is not known to Applicant.

The Assignee of the instant application is a licensee of U.S. Patent No. 5,688,651, which is directed in part to subject matter related to the instant application. U.S. Patent No. 5,688,651 is now undergoing examination reissue as Application No. 09/441,140. U.S. Application No. 09/441,140 is submitted herewith as cite number 283. U.S. Patent No. 5,688,651 was previously submitted in the IDS submitted September 10, 2001 as cite no. 16.

Applicant also cites commonly owned copending applications directed to related subject matter:

09/201,430 filed 11/30/98;
09/497,553 filed 02/03/00;
09/724,477 filed 11/28/00;
09/723,927 filed 11/28/00;
09/724,762 filed 11/28/00;
09/724,102 filed 11/28/00;
09/724,489 filed 11/28/00;
09/322,289 filed 05/28/99;
09/723,713 filed 11/27/00;
09/723,760 filed 11/27/00;

09/724,319 filed 11/27/00;
09/723,384 filed 11/27/00;
09/724,495 filed 11/27/00;
09/580,015 filed 05/26/00;
09/724,940 filed 11/28/00;
09/724,961 filed 11/28/00;
09/580,018 filed 05/26/00;
09/724,552 filed 11/28/00;
09/723,544 filed 11/28/00;
09/724,273 filed 11/28/00;
09/724,551 filed 11/28/00;
09/724,288 filed 11/28/00;
09/580,019 filed 05/26/00;
09/723,765 filed 11/28/00;
09/724,291 filed 11/28/00;
09/204,838 filed 12/03/98;
09/724,921 filed 11/28/00;
09/724,929 filed 11/28/00;
09/585,817 filed 06/01/00;
09/724,567 filed 11/28/00;
09/724,575 filed 11/28/00;
09/724,953 filed 11/28/00;
09/724,570 filed 11/28/00;
09/585,656 filed 06/01/00;
09/723,766 filed 11/27/00;
09/723,725 filed 11/27/00;

09/579,690 filed 05/26/00;
09/979,701 filed 03/13/01;
09/979,952 filed 04/04/02;
09/980,568 filed 03/12/02; and,
10/429,216 filed 05/02/03.

Applicant also cites the following copending applications directed to related subject matter but subject to different assignment:

10/010,942 filed 12/06/01;
10/232,030 filed 08/30/02;
60/444,150 filed 02/01/03; and,
10/388,214 filed 03/12/03.

Applicant further cites the following commonly owned abandoned applications directed to related subject matter:

60/067,740 filed 12/02/97;
60/080,970 filed 04/07/98;
60/067,219 filed 12/03/97;
60/079,697 filed 03/27/98;
60/137,010 filed 06/01/99;
60/137,047 filed 06/01/99; and,
60/136,655 filed 05/28/99.

Applicant also cites the following abandoned applications directed to related subject matter but subject to different assignment:

60/251,892 filed 12/06/00; and,
60/363,751 filed 03/12/02.

Applicant points out that the following applications are now commonly assigned but were previously subject to different assignment than the present application:

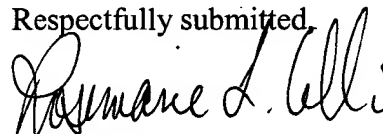
60/067,219 filed 12/02/97;
60/079,697 filed 03/27/98;
09/204,838 filed 12/03/98;
09/724,921 filed 11/28/00; and,
09/724,929 filed 11/28/00.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

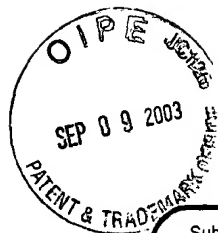
Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Rosemarie L. Celli
Reg. No. 42,397

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
Fax: 650-326-2422
RLC:crf



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 13

C m p l t e i f K n w n

Application Number	09/724,288
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon L. Turner
Attorney Docket Number	15270J-004765US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	360	2003/0073655 A1	04-17-2003	Chain	
	370	2003/0068325 A1	04-10-2003	Wang	
	378	2002/0197258 A1	12-26-2003	Ghanbari et al.	
	366	2002/0187157 A1	12-12-2002	Jensen et al.	
	377	2002/0168377 A1	11-14-2002	Schaetzel	
	340	2002/0162129 A1	10-31-2002	Lannfelt	
	395	2002/0160394 A1	10-31-2002	Wu	
	326	2002/0136718 A1	09-26-2002	Raso	
	379	2002/0132268 A1	09-19-2002	Chang et al.	
	365	2002/0133001 A1	09-19-2002	Gefter et al.	
	325	2001/0102261 A1	08-01-2002	Raso	
	362	2002/0094335 A1	07-18-2002	Chalifour et al.	
	306	6,417,178 B1	07-09-2002	Klunk et al.	
	376	2002/0086847 A1	07-04-2002	Chain	
	405	6,399,314 B1	06-04-2002	Krishnamurthy	
	342	2002/0009445 A1	01-24-2002	Du et al.	
	267	6,294,171 B2	09-25-2001	McMichael	
	381	2001/0021769 A1	09-13-2001	Prusiner	
	401	6,284,533 B1	09-04-2001	Thomas	
	234	6,284,221 B1	09-04-2001	Schenk, et al.	
	300	2001/0018053 A1	08-30-2001	McMichael	
	230	6,262,335 B1	07-17-2001	Hsiao et al.	
	345	2002/0077288 A1	06-21-2001	Frangione	
	231	6,114,133	09-05-2000	Seubert et al.	
	221	5,989,566	11-23-1999	Cobb et al.	
	346	5,935,927	08-10-1999	Vitek et al.	
	382	5,846,533	12-08-1998	Prusiner	
	321	5,837,672	11-17-1998	Schenk et al.	
	353	5,824,322	10-20-1998	Balasubramanian	
	357	5,776,468 B1	07-07-1998	Hauser et al.	
	380	5,750,361	05-12-1998	Prusiner et al.	
	373	5,721,130	02-24-1998	Seubert et al.	

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/724,288
				Filing Date	November 28, 2000
				First Named Inventor	Dale B. Schenk
				Art Unit	1647
				Examiner Name	Sharon L. Turner
Sheet	2	of	13	Attorney Docket Number	15270J-004765US

	356	5,622,701	04-22-1997	Berg	
	320	5,593,846	01-14-1997	Schenk et al.	
	358	5,583,112 B2	12-10-1996	Kensil et al.	
	403	5,464,823	11-07-1995	Lehrer et al.	
	284	5,231,170	07-27-1993	Averback	
	402	4,713,366	12-15-1987	Stevens	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	296	60/254,465	12-08-2000	Holtzman et al.	
	297	60/254,498	12-08-2000	Holtzman et al.	
	305	09/724,842	11-28-2000	Chalifour et al.	
	295	60/184,601	02-24-2000	Holtzman et al.	
	282	60/169,687	12-08-1999	Chain	
	242	60/168,594	11-29-1999	Chalifour et al.	
	283	09/441,140	11-16-1999	Solomon et al.	
	299	60/186,295	03-01-2000	Rasmussen et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	343	EP	1 172 378	A1	01-16-2002			
	351	WO	02/34878	A2	05-02-2002			
	352	WO	02/34777	A1	05-02-2002			
	341	WO	02/03911	A2	04-07-2001			
	344	WO	01/90182	A2	11-29-2001			
	348	WO	01/77167	A2	10-18-2001			
	294	WO	01/62801	A2	08-30-2001			
	301	WO	01/62284	A2	03-01-2000			
	298	WO	01/42306	A2	06-14-2001			
	243	WO	01/39796	A2	06-07-2001			
	322	WO	00/72880	A2, A3	12-07-2000			
	323	WO	00/72876	A2, A3	12-07-2000			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 13

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Application Number	09/724,288
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon L. Turner
Attorney Docket Number	15270J-004765US

	324	WO	00/72870	A1	12-07-2000		
	240	WO	00/43039	A1	07-27-2000		
	331	WO	99/06545	A2	11-02-1999		
	383	WO	97/10505	A1	03-20-1997		
	227	WO	95/11008	A2	04-27-1995		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 13

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Applicati n Numb r	09/724,288
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon L. Turner
Attorney Docket Number	15270J-004765US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	391	AGUZZI et al., "Prion research: the next frontiers," <u>Nature</u> , 389:795-798 (1997).	
	393	AKIYAMA et al., "Inflammation and Alzheimer's disease," <u>Neurobiology of Aging</u> , 21:383-421 (2000).	
	372	AKIYAMA et al., "Occurrence of the Diffuse Amyloid β -Protein (A β) Deposits With Numerous A β -Containing Glial Cells in the Cerebral Cortex of Patients With Alzheimer's Disease," <u>Glia</u> , 25:324-331 (1999).	
	228	BARROW et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra," <u>J. Mol. Biol.</u> , 225(4): 1075-1093 (1992).	
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging," Reuters, April 20, 2001 7:56 PM ET.	
	404	BENJAMINI and LESKOWITZ, from <u>IMMUNOLOGY A Short Course</u> , Second Edition, Chapter 4, Antibody Structure, pages 49-65, 1991, published by Wiley-Liss, Inc., New York, New York.	
	327	CAMERON, "Recent Advances in Transgenic Technology," <u>Molecular Biotechnology</u> , 7:253-265 (1997).	
	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <u>Clin. Neuropharm.</u> , 15:414A-414B (1992).	
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at : http://www.fda.gov/cber/vaccine/thimerosal.htm , last updated May 16, 2002.	
	266	CHAPMAN, "Model behavior," <u>Nature</u> , 408:915-916 (2000).	
	349	CHECK, "Battle of the Mind," <u>Nature</u> , 422:370-372 (March 2003).	
	222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database. (Publication date unknown.)	

Examiner
SignatureDate
Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/724,288		
		Filing Dat	November 28, 2000		
		First Named Inventor	Dale B. Schenk		
		Art Unit	1647		
		Examiner Name	Sharon L. Turner		
Sheet	5	of	13	Attorney Docket Number	15270J-004765US

	332	CHEN et al., "Neurodegenerative Alzheimer-like pathology in PDAPP 717V→F transgenic mice," <u>Progress in Brain Research</u> , Van Leeuwen et al. Eds, 117:327-337 (1998).	
	307	CHEN et al., "A learning deficit related to age and beta-amyloid plaques in a mouse model of Alzheimer's disease," <u>Nature</u> , 408(6815):975-9 (2000).	
	302	CHUNG et al., "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <u>J. Biol. Chem.</u> , 274(45):32301-32308 (1999).	
	291	COLOMA et al., "Transport Across the Primate Blood-Brain Barrier of a Genetically Engineered Chimeric Monoclonal Antibody to the Human Insulin Receptor," <u>Pharm. Res.</u> , 17:266-274 (2000).	
	333	CONWAY et al., "Acceleration of oligomerization, not fibrillization, is a shared property of both α -synuclein mutations linked to early-onset Parkinson's disease: Implications for pathogenesis and therapy," <u>PNAS</u> , 97(2):571-576 (2000)	
	286	CORDELL, B., " β -Amyloid formation as a potential therapeutic target for Alzheimer's disease," <u>Ann. Rev. Pharmacol. Toxicol.</u> , 34:69-89 (1994).	
	287	COSTA et al., "Immunoassay for transthyretin variants associated with amyloid neuropathy," <u>Scand. J. Immunol.</u> , 38:177-182 (1993).	
	293	DALY, et al., "Detection of the membrane-retained carboxy-terminal tail containing polypeptides of the amyloid precursor protein in tissue from Alzheimer's Disease brain," <u>Life Sci.</u> , 63:2121-2131 (1998).	
	220	Dialog/Derwent, Abstract of WPI Acc No: 1997-054436/199706: Stable vaccine compns. - comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol. organic solvent and saline or water, Derwent File 351: Derwent WPI database. (Publication date unknown.)	
	390	DIOMEDE et al., "Activation effects of a prion protein fragment [PrP-(106-126)] on human leucocytes," <u>Biochem. J.</u> , 320:53-570 (1996).	
	363	DODART, "Immunotherapy for Alzheimer's disease: will vaccination work?" <u>Trends in Molecular Medicine</u> , 9(3):85-87 (2003).	
	318	DU et al., "Reduced levels of amyloid beta-peptide antibody in Alzheimer disease," <u>Neurology</u> , 57(5):801-5 (2001).	
	288	DUMERY et al., " β -Amyloid protein aggregation: its implication in the physiopathology of Alzheimer's disease," <u>Pathol. Biol.</u> , 49:72-85 (2001).	

Examiner Signature		Date Considered	
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				Applicati n Numb r	09/724,288
				Filing Dat	November 28, 2000
				First Named Inventor	Dale B. Schenk
				Art Unit	1647
				Examiner Name	Sharon L. Turner
Sheet	6	of	13	Attorney Docket Number	15270J-004765US

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		Application Number	09/724,288		
		Filing Date	November 28, 2000		
		First Named Inventor	Dale B. Schenk		
		Art Unit	1647		
		Examiner Name	Sharon L. Turner		
Sheet	7	of	13	Attorney Docket Number	15270J-004765US

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		Filing Date	November 28, 2000		
		First Named Inventor	Dale B. Schenk		
		Art Unit	1647		
		Examiner Name	Sharon L. Turner		
Sheet	9	of	13	Attorney Docket Number	15270J-004765US

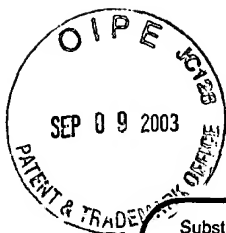
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		Art Unit	1647		
		Examiner Name	Sharon L. Turner		
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				Filing Date	November 28, 2000
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				Art Unit	1647
				Examiner Name	Sharon L. Turner
Sheet	11	of	13	Attorney Docket Number	15270J-004765US

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/724,288
				Filing Date	November 28, 2000
				First Named Inventor	Dale B. Schenk
				Art Unit	1647
				Examiner Name	Sharon L. Turner
Sheet	13	of	13	Attorney Docket Number	15270J-004765US

	385	WISNIEWSKI et al., "Therapeutics in Alzheimer's and Prion Diseases," <u>Biochemical Society Transactions</u> , 30(4):-574-587 (2002).	
	275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monoclonal antibody to the human insulin receptor," <u>J. Clin. Invest.</u> , 100:1804-1812 (1997).	
	292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <u>Acta Neuropathol.</u> , 95:217-222 (1998).	
	290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <u>Nature Medicine</u> , 7:18-19 (2001).	

Examiner Signature		Date Considered	
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